

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P193089

Luminaire Tested: **GLEON-AF-01-LED-E1-T2-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193089
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-T2-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3896.2 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



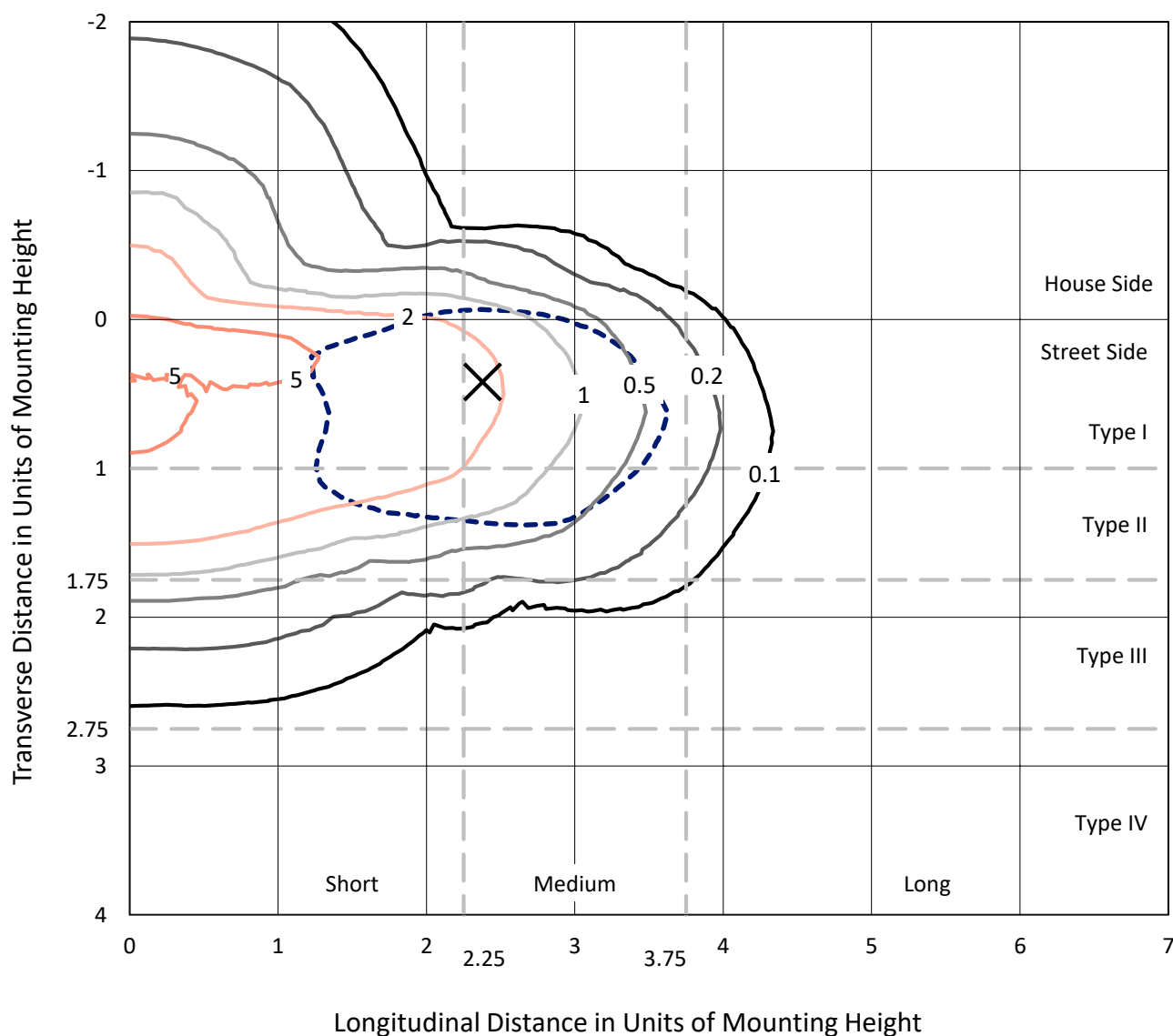
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

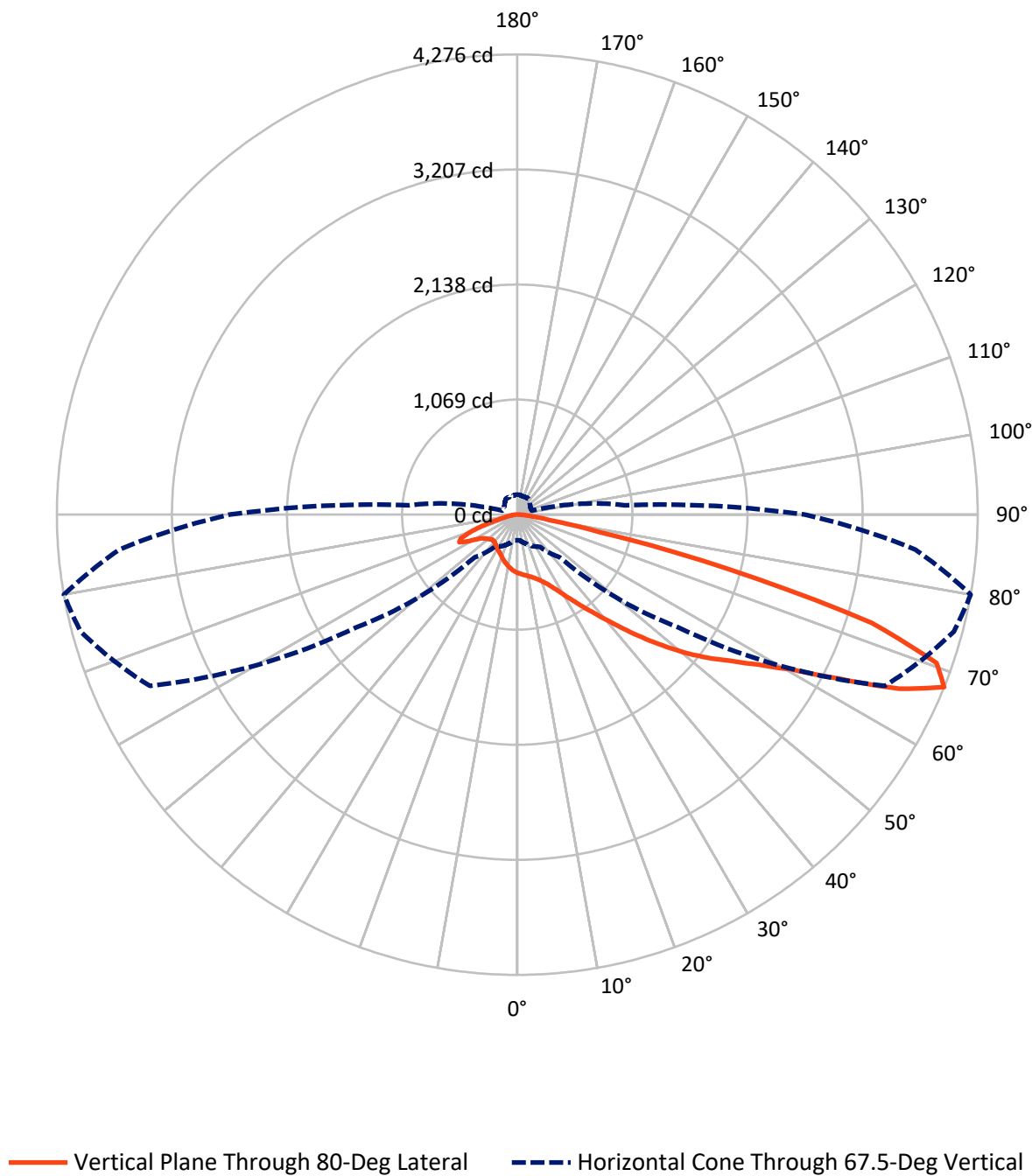


Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	717.5	0.0	717.5
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	3178.7	0.0	3178.7
	% Fixture	81.6	0.0	81.6
Total	Lumens	3896.2	0.0	3896.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.9	1.3
10°-20°	143.8	3.7
20°-30°	238.1	6.1
30°-40°	389.4	10.0
40°-50°	628.8	16.1
50°-60°	907.8	23.3
60°-70°	1001.8	25.7
70°-80°	461.8	11.9
80°-90°	74.7	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3896.2	100.0
0°-180°	3896.2	100.0

Coefficient of Utilization



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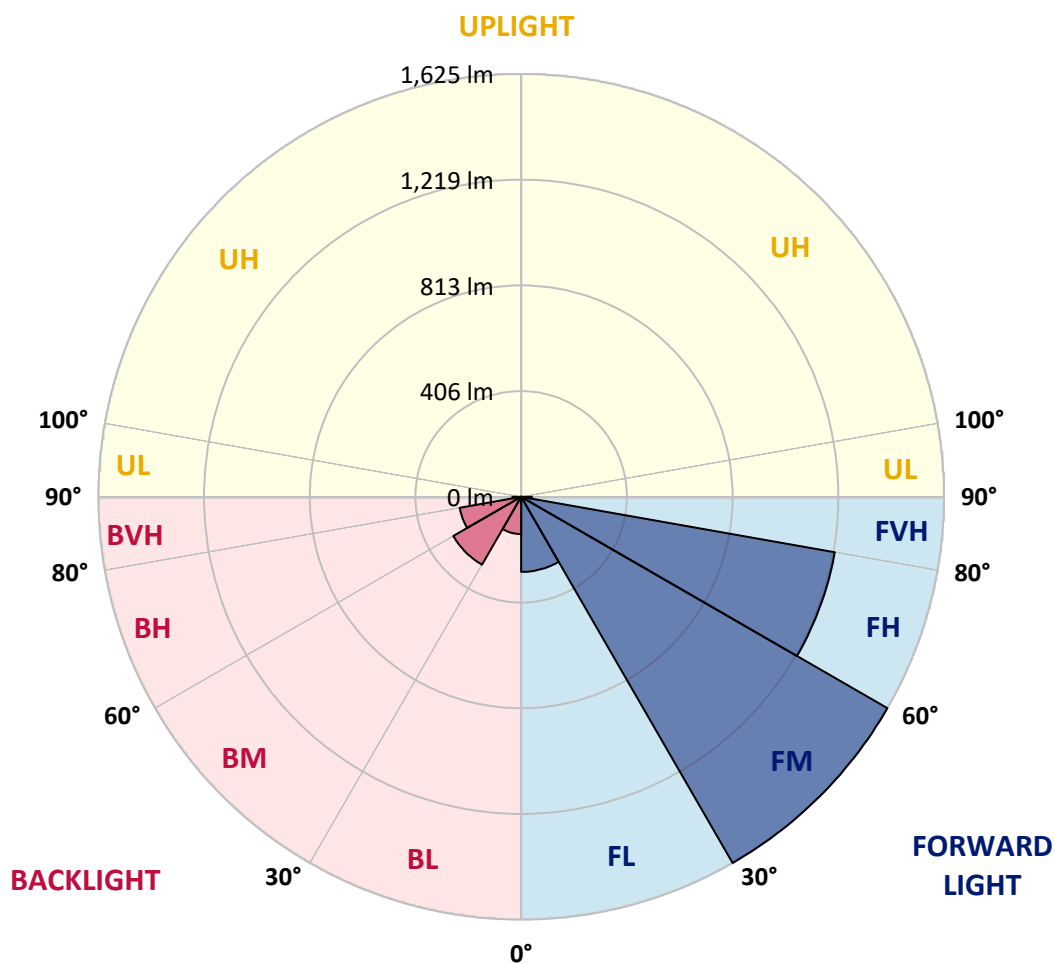
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	288.7	7.4			
FM	(30°-60°)	1625.0	41.7			
FH	(60°-80°)	1223.9	31.4			G1/1800
FVH	(80°-90°)	41.1	1.1			G1/100
BL	(0°-30°)	143.2	3.7	B1/500		
BM	(30°-60°)	301.0	7.7	B1/1000		
BH	(60°-80°)	239.7	6.2	B1/500		G1/500
BVH	(80°-90°)	33.6	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	541.3	541.3	541.3	541.3	541.3	541.3	541.3	541.3	541.3	541.3	541.3
2.5°	592.0	588.7	589.2	588.3	585.4	580.3	575.0	565.3	555.1	549.7	545.5
5°	641.6	640.7	639.2	636.2	629.0	618.6	605.8	588.5	569.9	560.1	550.6
7.5°	678.6	678.1	676.4	674.4	667.3	654.9	635.5	610.9	583.9	570.5	555.9
10°	681.7	682.7	684.0	689.2	690.2	683.4	663.6	633.9	598.4	581.1	562.5
12.5°	655.7	657.7	662.8	676.1	690.2	698.3	688.3	658.1	615.5	594.6	571.0
15°	621.1	622.2	628.6	646.9	672.0	697.4	707.0	684.7	637.6	611.9	583.7
17.5°	606.3	606.9	611.3	623.5	646.9	683.2	717.7	713.7	664.7	633.3	599.2
20°	598.8	600.2	606.5	618.4	633.1	665.1	719.2	745.0	696.8	660.3	618.7
22.5°	620.1	619.5	621.9	627.8	640.3	659.5	718.0	777.3	737.9	694.8	644.3
25°	669.8	672.0	667.9	661.1	665.2	678.6	724.1	812.2	789.3	739.0	677.6
27.5°	740.6	738.5	732.6	716.8	708.5	714.3	744.4	849.7	853.2	797.4	721.7
30°	811.1	809.4	803.7	784.5	767.6	762.8	783.9	892.8	929.4	867.4	775.8
32.5°	884.5	882.5	877.2	858.0	837.7	826.5	840.1	942.8	1019.1	951.0	839.5
35°	974.8	971.1	959.9	933.2	913.2	904.5	910.9	1005.5	1122.6	1050.0	916.9
37.5°	1059.9	1065.3	1053.8	1016.9	991.1	988.0	995.2	1082.0	1234.3	1160.7	1005.6
40°	1145.1	1146.1	1135.8	1105.6	1078.9	1073.9	1091.8	1174.9	1366.1	1293.0	1113.7
42.5°	1233.3	1235.2	1217.8	1190.1	1170.3	1171.4	1191.7	1283.6	1517.3	1449.0	1237.9
45°	1337.9	1340.7	1321.6	1285.1	1267.3	1303.1	1294.7	1405.6	1682.9	1626.3	1380.7
47.5°	1447.2	1451.6	1437.1	1402.9	1380.7	1429.9	1397.8	1540.8	1861.3	1816.2	1537.4
50°	1506.9	1513.2	1527.5	1524.9	1520.2	1511.8	1512.5	1685.9	2045.4	2014.2	1698.6
52.5°	1474.9	1474.7	1526.5	1589.4	1656.5	1661.5	1652.6	1838.8	2217.2	2207.8	1850.2
55°	1328.3	1338.3	1416.8	1538.5	1721.9	1836.4	1862.6	2013.8	2386.0	2396.9	2004.3
57.5°	1084.3	1092.6	1198.5	1368.2	1633.7	1940.3	2160.9	2268.3	2574.7	2625.7	2209.3
60°	735.5	745.3	857.5	1061.5	1396.3	1882.4	2445.0	2722.6	2800.7	2916.6	2497.0
62.5°	432.1	441.2	532.6	669.6	983.0	1613.3	2569.7	3368.8	3159.6	3355.8	2935.9
65°	297.5	303.6	348.1	416.9	564.9	1086.6	2415.0	3814.9	3711.7	3899.7	3444.7
67.5°	239.4	238.6	273.9	320.6	363.8	560.3	1826.3	3764.5	4197.4	4275.9	3709.0
70°	197.2	196.4	220.3	259.2	290.6	315.5	994.7	3176.8	4098.5	4130.3	3465.7
72.5°	165.0	165.7	181.1	209.9	238.4	237.6	437.1	2234.8	3224.1	3444.4	2762.6
75°	139.3	139.7	149.8	170.1	193.5	191.4	237.1	1210.7	1874.3	2027.5	1531.4
77.5°	118.5	118.9	125.4	136.8	153.4	152.6	173.0	523.1	781.9	772.3	523.8
80°	105.7	105.7	108.7	110.9	120.0	116.6	128.3	251.3	330.5	305.2	209.1
82.5°	82.8	83.2	102.0	101.3	94.5	90.1	90.1	148.0	175.2	161.9	122.4
85°	46.7	46.4	65.8	79.4	83.2	63.5	63.0	82.8	95.4	84.0	59.2
87.5°	20.0	20.3	30.5	35.3	47.2	39.6	38.9	42.7	48.5	41.9	27.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	541.3	541.3	541.3	541.3	541.3	541.3	541.3	541.3	541.3	541.3	541.3
2.5°	541.5	536.5	525.5	512.0	499.7	491.6	484.3	473.7	474.4	467.1	461.7
5°	541.1	530.8	505.5	475.3	446.4	425.4	409.7	395.5	392.0	385.3	381.4
7.5°	541.5	524.6	482.1	433.9	398.0	371.6	358.2	350.6	348.9	346.6	346.8
10°	542.8	519.1	456.2	395.1	357.5	340.2	336.8	339.1	341.8	342.5	342.7
12.5°	545.9	514.1	428.1	360.5	332.2	326.8	332.3	340.3	345.5	348.0	347.8
15°	552.9	510.2	401.1	333.6	318.2	321.1	331.5	342.5	350.0	353.6	353.7
17.5°	560.3	504.7	373.2	312.8	307.9	315.1	328.0	341.0	350.2	354.1	354.9
20°	570.2	497.7	344.0	297.3	298.1	306.4	318.4	331.5	341.7	344.9	346.5
22.5°	582.9	490.2	318.6	284.6	287.0	293.3	302.6	314.0	322.9	324.4	325.7
25°	600.2	482.2	298.3	273.1	274.1	277.7	284.1	290.7	296.9	295.2	296.5
27.5°	623.5	475.3	283.1	262.6	260.9	261.6	264.9	267.0	270.3	265.5	266.0
30°	650.6	467.8	271.4	253.4	248.6	247.3	248.0	249.1	251.7	245.2	244.2
32.5°	682.4	458.8	260.5	245.3	238.6	235.9	236.3	239.4	249.0	245.0	242.9
35°	719.2	448.6	249.0	236.5	231.8	228.1	227.7	237.3	265.8	263.4	261.4
37.5°	762.3	438.4	237.4	226.5	226.9	222.7	221.4	232.2	269.1	259.4	258.0
40°	817.1	433.1	227.7	216.0	220.8	220.1	217.5	223.1	247.6	229.8	227.5
42.5°	885.0	433.9	220.3	204.7	213.5	219.6	215.5	215.6	224.4	211.0	208.9
45°	968.8	442.9	215.2	195.7	205.2	219.1	214.5	211.5	212.3	205.2	204.1
47.5°	1066.7	461.5	211.5	188.2	197.3	217.0	214.4	210.5	208.6	204.9	203.9
50°	1175.4	488.5	208.9	181.1	190.3	213.5	214.5	209.2	207.4	205.9	205.2
52.5°	1282.2	519.4	204.9	175.0	184.7	209.2	215.2	208.1	206.0	204.9	204.4
55°	1401.4	558.0	198.8	169.8	180.1	203.9	215.2	206.4	204.1	204.4	204.1
57.5°	1562.3	620.4	191.4	165.3	174.6	197.3	211.5	204.5	201.6	201.8	202.0
60°	1813.8	730.2	182.6	160.9	167.6	189.7	206.6	200.3	197.3	198.2	198.3
62.5°	2183.5	891.5	171.1	154.4	160.4	181.5	199.7	194.9	192.0	193.9	193.9
65°	2568.0	1033.9	156.9	146.2	152.6	172.4	191.1	188.2	185.3	189.7	189.6
67.5°	2671.4	1002.0	142.7	137.1	145.0	162.5	180.8	179.1	177.6	185.3	184.8
70°	2373.1	804.4	129.7	128.0	136.6	151.8	169.6	169.6	168.6	174.4	173.0
72.5°	1808.0	570.5	117.2	118.1	127.0	140.1	157.5	158.9	157.4	160.2	159.0
75°	967.9	326.4	104.8	107.4	115.0	128.2	144.0	145.5	144.4	144.2	144.8
77.5°	321.7	159.6	91.7	95.9	102.6	115.9	130.0	132.2	129.9	129.5	129.3
80°	143.2	100.3	77.2	82.8	88.8	101.8	115.3	117.0	114.5	118.0	113.5
82.5°	92.1	66.0	62.0	68.1	73.9	87.9	100.5	100.8	98.6	114.5	97.7
85°	44.7	40.9	46.7	52.2	57.2	69.1	83.2	83.5	77.7	70.8	68.3
87.5°	22.3	23.8	31.0	36.0	38.6	47.4	60.6	59.4	57.0	51.8	47.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)